

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT**

**Resident Engineer:** Casey, William  
**Address:** 333 Burma Road  
**City:** Oakland, CA 94607

**Report No:** WIR-029728  
**Date Inspected:** 22-Jun-2013

**Project Name:** SAS Superstructure  
**Prime Contractor:** American Bridge/Fluor Enterprises, a JV  
**Contractor:** American Bridge/Fluor Enterprises, a JV

**OSM Arrival Time:** 700  
**OSM Departure Time:** 1530  
**Location:** Job Site

**CWI Name:** As noted below  
**Inspected CWI report:** Yes No N/A  
**Electrode to specification:** Yes No N/A  
**Qualified Welders:** Yes No N/A  
**Approved Drawings:** Yes No N/A

**CWI Present:** Yes No  
**Rod Oven in Use:** Yes No N/A  
**Weld Procedures Followed:** Yes No N/A  
**Verified Joint Fit-up:** Yes No N/A  
**Approved WPS:** Yes No N/A  
**Delayed / Cancelled:** Yes No N/A

**Bridge No:** 34-0006**Component:** SAS Tower**Summary of Items Observed:**

Quality Assurance Inspector (QA) Douglas Frey was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

This QA Inspector performed a Deck survey of the surface condition of "A" deck from OBGs 1W PP8 W2 – W5 to 5W PP29 W2 – W5. This inspection was conducted in conjunction with Smith Emery Quality Control personnel and impact sites as well as arc strikes and any irregularities was measured for depth and length as well as location and recorded for a repair procedure. This QA Inspector randomly observed ABF welding personnel perform grinding repairs on "A" deck survey indications at the following locations;

#126 – 5W PP37-500mm W2+350mm  
#127 – 4W PP34.5- W4  
#128 – 6W PP38.5+720mm W5+1470mm  
#129 – 6W PP40.5+1050mm W5-3330mm  
#130 – 6W PP41+300mm W5-1800mm  
#131 – 6W PP47-560mm W5-3130mm  
#132 – 6W PP50.5+1220mm W2+660mm  
#133 – 6W PP55+730mm W2+1160mm  
#134 – 6W PP56.5+500mm W2+400mm  
#135 – 6W PP58 W3-2440mm  
#136 – 6W PP60+1050mm W2+2350mm

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The grinding was observed to ensure that minimal material was removed to bring the site to serviceable condition. Upon completion of the grinding Quality Control Inspector Fred Michels was observed performing Magnetic Particle (MT) Inspection of the sites. QC was observed performing the testing in accordance with AWS D1. 5-Section 6.7.6-2002 and ASTM E709. It was noted that no rejectable indications were found and appeared to comply with the contract specifications.

This QA Inspector reported to crossbeam 8 to observe monitor work being performed on the damaged area. At this time no work was being performed at this location.

This QA Inspector randomly observed ABF welder Eric Sparks #3040 perform Shielded Metal Arc Welding (SMAW) on bar stock utilized as shim plates to the bottom of the barricades at Hinge A on the north and south sides of the west bound OBG. The bar stock is to cover the gap left at the bottom of the barricades to the deck surface. The welder was observed placing a 3mm fillet weld the length of the bar and 6mm fillets 2" long every 6 Inches. Quality Control was present and the work had been conducted without approved details from Engineering. This QA Inspector will generate a TL-15 on 06/23/2013.

This QA Inspector randomly observed ABF welder Donald Plumb #0891 perform SMAW on (2) two pipe stand base plates located at PP123-E2 and PP121-E2. Quality Control was present and the work had been conducted without approved details from Engineering. The plates had CCO266 written on them. This QA Inspector will generate a TL-15 on 06/23/2013.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

Conversations on this date were relevant to work performed.



### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Gary Thomas 916-764-6027 , who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Frey,Doug	Quality Assurance Inspector
<b>Reviewed By:</b>	Reyes,Danny	QA Reviewer

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